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ABSTRACT

This competency matrix matches the primary and intermediate Science Unlimited lessons with the established competencies which appear in the Science Unlimited competency continuum. Primary lessons deal with: investigating dripping faucets; classification/sorting; smell; eyes; color; air; weather; observation and description; mystery boxes; change; simple machines; measurement; electricity; magnetism; thermometers; life cycles; animals; and other topics. Intermediate lessons deal with: ice and water; chemistry; color; geology; weather; sound; evaporation; floating things; simple machines; bouncing objects; heat loss; ecology; oceanography; nutrition; seasons; and other topics. For each lesson the process, attitudinal, and content competencies are identified. Then the video model, lessons, and the six most commonly used elementary science textbook series are keyed to indicate how they deal with these prestated competencies. This arrangement makes it possible for schools using Science Unlimited to key their textbooks and to use them for the content component. (By the opening of the 1985-86 school year, this matrix will include the remaining text series in common use in Pennsylvania schools, as well as listings of computer software.) (JN)

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FOREWORD

This Competency Matrix matches the SCIENCE UNLIMITED lessons at both the primary and intermediate levels with the established competencies which appear in the SCIENCE UNLIMITED Competency Continuum.

For each lesson the process, attitudinal, and content competencies are identified. Then the video model, lessons, and the six most commonly used elementary science textbook series are keyed to indicate how they deal with these prestated competencies. This arrangement makes it possible for schools using SCIENCE UNLIMITED to keep their textbooks and to use them for the content component.

By the opening of the 1985-86 school year, this matrix will include the remaining text series in common use in Pennsylvania schools, as well as listings of computer software.

We urge teachers using SCIENCE UNLIMITED to give much more emphasis to the processes of science than to content. It is much more important that our students understand scientific processes than that they possess superficial knowledge of a few content areas. This will lead to the easier acquisition of higher level cognitive skills as the student progresses.

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Dripping Faucets PRIMARY LEVEL	1. Observing 4. Predicting 5. Measuring 6. Communicating 12. Interpreting Data	B. Biological Science 1. Characteristics of Living Things 6. Ecology C. Physical Science 12. Water D. Earth and Space Science 4. Natural Resources 5. Weather and Climate	3. Toward Personal Use of Science 5. Toward Science and Society	ISEE #4 Dripping Faucets Water: Natural Science First Film	#1 Activity 2 ITV Handbook For Teachers, p. 77 #2 Activity 1 ITV Handbook For Teachers, p. 77 #3 ITV Video Module #4 Activity 3A ITV Handbook For Teachers, p. 77-78 #5 Activity 4 ITV Handbook For Teachers, p. 78 #6 Activity I Inquiry Related Student Activities, p. I-48	

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Investigating Dripping Faucets PRIMARY LEVEL	Grade 1 Chap. 5, p. 70-83 Grade 2 Chap. 8, p. 151-159 Grade 3 Unit 4, p. 106-139 Unit 5 Chap. 2, p. 163	Grade 1 p. 6-22 Grade 3 Unit 2, p. 32-63	Grade 2 Chap. 8, p. 53-61 Grade 3 Chap. 12, p. 157-171	Grade 1 Chap. 6, p. 113-131 Grade 3 Chap. 4, p. 97-139	Grade 1 Chap. 7, p. 118-122 Grade 2 Chap. 7, p. 130-139 Grade 3 Chap. 9, p. 176-178 Chap. 10, p. 195-197 Chap. 14. p. 273	Beginnings Grade 1 c 1974 Chp 2, p. 25-26 Chp 7, p. 31 Chp 8, p. 32 Chp 35, p. 68 Chp 37, p. 70 Material Objects c 1970 Grade 1 Chp.15, p.55-57 Chp.19, p.69-71 Chp.20, p.72-73 Chp.21, p.74-77 Interaction Grade 2, c 1970 Chp. 1, p.24 Subsystems and Variables Grade 3, c 1970 Chp. 4, p.40-43 Chp. 6, p.54-57 Chp. 7, p.58-61 Chp. 8, p.62-63 Chp.10, p.67-69 Chp.11, p.74-76 Chp.12, p.77-79 Chp.13, p.81-83

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investing Classification/Sorting (Primary)	1. Observing 2. Classifying 6. Communicating	C. Physical Science 1.A. Matter: Form/State 1.C. Matter: Elements	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	"Observing and Classifying" "Size, Shape, Color, Texture"	#1 Activities I-V, "Investigating Sorting," Roy Allison #2 Activity I, "Investigating the Classification Methods," Roy Allison #3 Activities II-IV, "Investigating the Classification Methods," Roy Allison #4 Activity V, "Investigating the Classification Methods," Roy Allison #5 Competency Measure, "Investigating the Classification Methods," Roy Allison	

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Investing Classification/ Sorting (Primary)	Grade 1 Chp. 2, p. 18-37 Chp. 3, p. 38-55 Grade 2 Chp. 2, p. 25-26	Grade 1 Unit 3, p. 48-71	Grade 1 Chp. 18, p. 149-155	Grade 1 p. 40-53	Grade 1 Chp. 1, p. 1-23 Chp. 2, p. 28-31 Chp. 3, p. 61 Chp. 4, p. 64-79 Chp. 5, p. 80-95 Grade 2 Chp. 4, p. 62-81 Grade 3 Chp. 5, p. 86-93	Beginnings: Grade 1 Chp. 2, p. 25-26 Chp. 7, p. 31 Chp. 8, p. 32 Chp. 35, p. 68 Chp. 37, p. 70 Material: Chp. 2, p. 26-27 Chp. 3, p. 28 Chp. 4, p. 29-30 Chp. 5, p. 31-32 Chp. 7, p. 38 Chp. 8, p. 39-41 Chp. 9, p. 42-43 Chp.10, p. 44-45 Chp.11, p. 46-48 Chp.13, p. 50-52 Chp.17, p. 60-63 Chp.18, p. 66-68 Chp.19, p. 69-71 Chp.20, p. 72-73 Interaction: Grade 2 Chp. 1, p. 24 Chp. 2, p. 25 Chp. 3, p. 26 Life Cycles: Grade 2 Chp. 3, p. 29-31 Chp. 5, p. 34-39 Chp. 6, p. 43-49 Chp. 7, p. 50-54 Chp. 8, p. 55-59 Chp.13, p. 73-75

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						Subsystemes & Variables: Grade 3 Chp. 3, p. 37-39

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigation Smell (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 6. Communicating 10. Experimenting	B. Biological Science 5. Human Biology	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	The Sensational 5: The Inside Story of Your Five Senses Learning to Use Your Senses	#1 Activity I, Readiness Survey, Investigating Smells, Roy Allison #2 Activity II, Investigating Smells, Roy Allison #3 Activity III, Investigating Smells, Roy Allison #4 Activity IV, Investigating Smells, Roy Allison #5 Activity V, Investigating Smells, Roy Allison #6 Activity VI, (Optional) Investigating Smells, Roy Allison #7 Activity VII, Investigating Smells, Roy Allison #8 Activity - Competency Measure, Investigating Smells, Roy Allison #10 Optional Activity, Investigating Smells, Roy Allison	

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Investigating Smell (Primary)	Grade 1 Chp. 1, p. 13 Chp. 2, p. 34-35		Grade 1 Chp. 10, p. 73-79	Grade 1 Chp. 1, p. 28-31	Grade 1 Chp. 1, p. 12-15	**Beginnings:** Grade K Chp. 25, p. 56 Chp. 26, p. 57 Chp. 27, p. 58 Chp. 28, p. 59 **Interaction:** Grade 2 Chp. 11, p. 60-63

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigation Eyes (Primary)	1. Observing 3. Inferring 6. Communicating	B. Biological Science 4. Animals 5. Human Biology	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science & Society	ISEE #9 Investigating Eyes See Better, Healthy Eyes	#1 Activity II, ITV Handbook for Teachers, p. 48 #2 Activity 2, ITV Handbook for Teachers, p. 58 #3 Activity 3, ITV Handbook for Teachers, p. 59 #4 Activity 4, ITV Handbook for Teachers, p. 59 #5 Competency Measure, ITV Handbook for Teachers, p. 60 #6 Activity 6, ITV Handbook for Teachers, p. 60	

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Investigating Eyes (Primary)	Grade 1 Chp. 1, p. 4-7		Grade 2 Chp. 10, p. 75-77	Grade 1 Chp. 1, p. 16-23	Grade 1 Chp. 1, p. 4-7 Grade 2 Chp. 4, p. 64	

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Color (Primary)	1. Observing 2. Classifying 6. Communicating	C. Physical Science 2.D. Light/Color	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	Color A First Film Color, Color, Everywhere, Red, Yellow, Blue	#1 Activity I, Inquiry-Creativity Student Activities, p. 28 #2 Activity II, Inquiry-Creativity Student Activities, p. 28	

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Investigating Color (Primary)	Grade 1 Chp. 2, p. 22-23			Grade 1 Chp. 1, p. 19-21	Grade 1 Chp. 4, p. 64-68	Beginnings: Grade K Chp. 1, p. 24 Chp. 2, P. 25-26 Chp. 3, p. 27 Chp. 4, p. 28 Chp. 5, p. 29 Chp. 6, p. 30 Chp. 7, p. 31 Chp. 8. p. 32-33 Chp. 9, p. 34 Chp.10, p. 35 Material: Grade 1 Chp. 3, p. 28 Chp. 5, p. 31-32 Subsystems and Variables: Grade 3 Chp. 6, p. 55-56

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investingating Air (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 9. Formulating Hypotheses 10. Experimenting 12. Interpreting Data	C. Physical Science 1.A. Form/State of Matter 2.G. Force & Machines D. Earth and Space Science	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	Air: Natural Science First Film Wind and Air	#1 Activity I, *Inquiry-Creativity Student Activities*, p. P-51 #2 Activities II & III, *Inquiry-Creativity Student Activities*, p. P-51 #3 Activity IV, *Inquiry-Creativity Student* Activities, p. P-52 #4 Activity V, *Inquiry-Creativity Student Activities*, p. P-52	

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Investigating Air (Primary)	Grade 1 Chp. 5, p. 70-83 Grade 2 Chp. 8, p. 122-145	Grade 2 Unit 2, p. 32-62	Grade 1 Chp. 14, p. 107-113	Grade 1 p. 92-111	Grade 1 Chp. 6, p. 107 Chp. 7, p. 123-125 & 127 Grade 2 Chp. 7, p. 122-129, 136, 138 Chp. 4, p. 60-67, 69-71, 74-75 Grade 3 Chp. 10, p. 191-194	Material: Grade 1 Chp. 16, p.58-59 Chp. 21, p.74-77 Interaction: Grade 2 Chp. 9, p. 51-54

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Weather (Primary)	1. Observing 3. Inferring 4. Predicting 6. Communicating 13. Formulating Models	C. Physical Science 1.A. Matter: Form/State 1.B. Matter: Water D. Earth and Space Science 5. Weather and Climate	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	The Weatherman, A Community Helper Water and Rain	#1 Activity I, Investigating the Formation of Clouds and Rain, Roy Allison #2 Activity II, Investigating the Formation of Clouds and Rain, Roy Allison #3 Activity III, Investigating the Formation of Clouds and Rain, Roy Allison #4 Activity IV, Investigating the Formation of Clouds and Rain, Roy Allison	

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Investigating Weather (Primary)	Grade 2 Chp. 7, p. 122-145 Grade 3 Unit4, p. 116-139		Grade 2 Chp. 5, p. 111-117	Grade 1 p. 78-91	Grade 1 Chp. 9, p. 144-159 Grade 2 Chp. 9, p. 162-181 Grade 3 Chp. 11, p. 204-223	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Observation and Description (Primary)	1. Observing 2. Classifying 5. Measuring 6. Communicating 12. Interpreting Data	B. Biological Science 1. Characteristics of Living Things	1. Toward Classwork	Investigating Observation and Description ISEE #7 Observing	#1 Activity I, ITV Handbook for Teachers, p. 41 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 42 #4 Activity I, Investigating Classification Methods, Roy Allison #5 Activity II, Investigating Classification Methods, Roy Allison #6 Activity III, "Handprints," Inquiry Related Student Activities, p. 6	

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Investigating Observation and Description (Primary)	Grade 1 Chp. 1, p. 2-17 Chp. 3, p. 38-55 Grade 3, Unit 1 Chp. 1, p. 6-7, p. 12-13 Unit 3 Chp. 1, p. 70-77 Chp. 2, p. 82 Unit 4 Chp. 1, p. 110 Unit 5 Chp. 2, p. 160-161 Unit 6 Chp. 1, p. 187			Grade 1 p. 1-39 Grade 1 p. 40-53	Grade 1 Chp. 4, p. 64-79	Beginnings: Grade K All Chapters 1-65 Material: All Chapters 1-21 Organisms: Grade 1 All Chapters 1-16 Interaction: Grade 2 All Chapters 1-20 Life Cycles: Grade 2 All Chapters 1-13 Subsystems and Variables: Grade 3 All Chapters 1-19 Populations: Grade 3 All Chapters 1-15

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Mystery Boxes (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Communicating 9. Formulating Hypotheses 12. Interpreting Data 13. Formulating Models	C. Physical Science 1.A. Form/State of Matter	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	Investigating Mystery Boxes, ISEE #1 Describing	#1 Activity I, ITV Handbook for Teachers p. 33 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 34 #4 Activity III, ITV Handbook for Teachers, p. 35 #5 Activity IV, ITV Handbook for Teachers, p. 35	

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Investigating Mystery Boxes (Primary)	Grade 1 Chp. 1, p. 2-17 Chp. 2, p. 18-37 Grade 3 Unit 3 Chapter p. 70-74		Grade 1 Chp. 10, p. 73-79	Grade 1 p. 1-39	Grade 2 Chp. 1, p. 5 Chp. 2, p. 31 Chp. 3, p. 57 Chp. 4, p. 85,95 Chp. 6, p. 113 Grade 3 Chp. 9, p. 168-170 Chp. 10, p. 190, 194	Beginnings: Grade K Chp. 21, p. 50 Chp. 22, p. 51 Chp. 24, p. 53 Chp. 26, p. 57 Chp. 27, p. 58 Chp. 29, p. 61 Chp. 30, p. 62 Chp. 31, p. 63 Chp. 32, p. 64 Chp. 33, p. 65 Material: Grade 1 Chp. 12, p. 49 Chp. 15, p. 55-57 Interaction: Grade 2 Chp. 20, p. 104-107 Subsystems and Variables: Grade 3 Chp. 5, p. 44-49

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Change (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 10. Experimenting	C. Physical Science 1.A. Matter: Form/State	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	Change Measuring Change	#1 Activity I, *Investigating Change*, Roy Allison #2 ITV Video Module #3 Activity II, *Investigating Change*, Roy Allison #4 Activity III, *Investigating Change*, Roy Allison #5 Activity IV, *Investigating Change*, Roy Allison #6 Activity V, *Investigating Change*, Roy Allison #7 Activity VI, *Investigating Change*, Roy Allison #8 Activity VII, *Investigating Change*, Roy Allison #9 Activity for Further Study, *Investigating Change*, Roy Allison	

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Investigating Change (Primary)	Grade 1 Chp. 6, p. 88-89 Chp. 9, p. 138-139 Grade 3 Unit 3 p. 68-105		Grade 2 Chp. 9, p. 63-67	Grade 1 Chp. 6, p. 112-131 Grade 2 Chp. 3, p. 40-63 Chp. 7, p. 126-145 Grade 3 Chp. 5, p. 140-175	Grade 1 Chp. 7, p. 120-122 Grade 2 Chp. 4, p. 78-79 Chp. 9, p. 178-179 Grade 3 Chp. 5, p. 96-103 Chp. 9, p. 166-185	Material: Grade 1 Chp. 13, p.50-52 Chp. 15, p.55-57 Chp. 18, p.66-68 Chp. 19, p.69-71 Life Cycles: Grade 2 Chp. 3, p.29-31 Chp. 5, p.34-39 Chp. 6, p.42-49 Chp. 7, p.50-54 Chp. 8, p.55-59 Interaction: Grade 2 All Chapters 4-20 Subsystems and Variables: Grade 3 Chp. 2, p.28-33 Chp. 3, p.37-39 Chp. 6, p.54-57 Chp. 8, p.62-64 Chp.12, p.77-79

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Simple Machines (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 7. Using Space/Time Relations 8. Defining Operationally 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data 13. Formulating Models	C. Physical Science 2.A. Basic Characteristics of Energy 2.G. Force and Machines	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	Lever-A Simple Machine Movement Everywhere	#1 Activity I, Readiness Survey, Inquiry-Related Student Activities, p. P-24 #2 ITV Video Module #3 Activity II, Inquiry-Related Student Activities, p. P-25 #4 Activity III, Inquiry-Related Student Activities, p. P-25 #5 Activity IV, Inquiry-Related Student Activities, p. P-25 #6 Activity V, Inquiry-Related Student Activities, p. P-26 #7 Activity VI, Competency Measure, Inquiry-Related Student Activities, p. P26	

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Investigating Simple Machines (Primary)	Grade 3 Unit 2 p. 32-67		Grade 2 Chp. 21, p. 167-175 Grade 3 Chp. 15, p. 205-215	Grade 3 Chp. 7, p. 208-235	Grade 1 Chp. 6, p. 96-109 Grade 3 Chp. 7, p. 122-141	Subsystems and Variables: Grade 3 Chp. 16, p. 94 Chp. 18, p. 98-101

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Measurement (Primary)	1. Observing 2. Classifying 3. Inferring 5. Measuring 6. Communicating	B. Biological Science 1. Characteristics of Living Things	1. Toward Classwork 2. Toward Personal Use of Science 4. Toward Oneself	Investigating Measurement, ISEE #3 Measurement	#1 Activity I, ITV Handbook for Teachers, p. 47 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 47 #4 Activity III, Competency Measure, ITV Handbook for Teachers, p. 47	

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Investigating Measurement (Primary)	Grade 2 Chp. 3, p. 42-63 Grade 3 Unit 1 Chp. 1, p. 8-9 Unit 2 Chp. 1, p. 36-37 Chp. 2, p. 45, 48 Unit 3 Chp. 1, p. 74 Chp. 3, p. 90 Unit 4 Chp. 1, p. 110-111	Grade 2 Unit 4, p. 96-127			Grade 1 Chp. 2, p. 26 Chp. 3, p. 44-45, 72-73 Chp. 8, p. 135 Grade 2 Chp. 4, p. 68-71 Chp. 6, p. 116-117 Chp. 9, p. 164-165	**Beginnings:** Grade K Chp. 34, p.67 Chp. 35, p.68 Chp. 37, p.70 Chp. 38, p.71 Chp. 39, p.73-74 Chp. 41, p.76-77 Chp. 42, p.78 Chp. 43, p.79 **Subsystems and Variables:** Grade 3 Chp. 13,p.80-83 Chp. 14,p.84-87 Chp. 15,p.88-89 Chp. 18,p.98-101 Chp. 19,p.102-105 **Populations:** Grade 3 Chp. 4, p.34-40 Chp. 5, p.41-43

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Electricity (Primary)	1. Observing 3. Inferring 4. Predicting 6. Communicating 10. Experimenting 12. Interpreting Data 13. Formulating Models	C. Physical Science 2.B. Electricity	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	Electricity Into Light How Does Electric Current Flow	#1 Activity I, Readiness Investigating Static Electricity, Roy Allison #2 Activity II, Investigating Static Electricity, Roy Allison #3 Activity III, Investigating Static Electricity, Roy Allison #4 Activity IV, Investigating Static Electricity. Roy Allison #5 ITV Video Module	

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Investigating Electricity (Primary)			Grade 2 Chp. 19, p. 147-155 Grade 3 Chp. 16, p. 217-229 Chp. 17, p. 231-241	Grade 3 Chp. 8, p. 236-259	Grade 2 Chp. 6, p. 103 Chp. 8, p. 158 Grade 3 Chp. 6, p. 117	Interaction: Grade 2 Chp. 4, p.31-32 Chp. 5, p.33 Chp.18, p.96-99 Chp.19, p.100-103 Chp.20, p.104-107 Subsystems and Variables: Grade 3 Chp. 1, p.24-27 Chp. 5, p.44-49

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Magnetism (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 2.C. Magnetism	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself	Magnets for Beginners Magnets-The Dragon's Secrets	#1 Activity I, Primary Lesson Packet-Investigative Science in Elementary Education, p. 29 #2 ITV Video Module #3 Activity II, Primary Lesson Packet-Investigative Science in Elementary Education, p. 29 #4 Activity III, Primary Lesson Packet-Investigative Science in Elementary Education, p. 30 #5 Activity IV, Primary Lesson Packet-Investigative Science in Elementary Education, p. 30	

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Investigating Magnetism (Primary)	Grade 1 Chp. 7, p. 100-113	Grade 2 Unit 3, p. 64-94	Grade 1 Chp. 20, p. 157-163	Grade 2 Chp. 8, p. 146-163	Grade 2 Chp. 5, p. 82-99 Grade 3 Chp. 6, p. 112-113	Material: Grade 1 Chp. 9, p.42-43 Interaction: Grade 2 Chp. 4, p.31-32 Chp. 5, p.33 Chp. 6, p.34-38 Chp. 8, p.49-50 Chp.16, p.82-85 Chp.17, p.86-91

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating The Thermometer (Primary)	1. Observing 2. Classifying 4. Predicting 5. Measuring 6. Communicating 10. Experimenting 12. Interpreting Data	C. Physical Science 1.A. Form/State of Matter 2.A. Energy Characteristics 2.F. Heat D. Earth Science 5. Weather and Climate	1. Toward Classwork 3. Toward Personal Use of Science	ISEE #8, Investigating Thermometers Measuring Change	#1 Activity I, ITV Handbook for Teachers, p. 52 #2 Activity II, ITV Handbook for Teachers, p. 52 #3 ITV Vido Module #4 Activity III, ITV Handbook for Teachers, p. 52 #5 Activity IV, ITV Handbook for Teachers, p. 53 #6 Activity V, Competency Measure, ITV Handbook for Teachers, p. 53	

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Investigating The Thermometer (Primary)	Grade 2 Chp. 5, p. 84-101 Grade 3 Unit 3 Chp. 4, p. 99 Unit 4 Chp. 1, p. 110-111	Grade 3 Unit 4 Chp. 3, p. 117-123	Grade 1 Chp. 13, p. 99-105	Grade 1 Chp. 4, p. 78-91 Grade 2 Chp. 7, p. 126-145	Grade 2 Chp. 6, p. 116-117 Chp. 9, p. 164-165 Grade 3 Chp. 5, p. 98	Subsystems and Variables: Grade 3 Chp. 13, p.80-83 Chp. 15, p.88-89

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Animals (Primary)	1. Observing 6. Communicating 12. Interpreting Data	B. Biological Science 4. Animals	1. Toward Classwork 2. Toward Interests and Careers	Environmental Manipulation Animal Migrations	#1 Activity I, Inquiry-Creativity Student Activities, p. 2 #2 Activity II, Inquiry-Creativity Student Activities, p. 2 #3 ITV Video Module #4 Activity III, Inquiry-Creativity Student Activities, p. 2 #5 Activity IV, Inquiry-Creativity Student Activities, p. 2 #6 Activity V, Inquiry-Creativity Student Activities, p. 3 #7 Activity VI, Inquiry-Creativity Student Activities, p. 4	

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Investigating Animals (Primary)	Grade 1 Chp. 4, p. 56-69 Chp. 8, p. 114-125 Grade 2 Chp. 1, p. 2-21 Grade 3 Unit 5, p. 140-181	Grade 1 Unit 5, p. 96-118 Grade 3 Unit 5, p. 128-159	Grade 1 Chp. 6, p. 41-47 Chp. 7, p. 49-55 Grade 2 Chp. 4, p. 25-29 Chp. 6, p. 39-45 Chp. 7, p. 47-51 Grade 3 Chp. 3, p. 27-37 Chp. 4, p. 39-51	Grade 1 Chp. 3, p. 54-77 Grade 2 Chp. 9, p. 164-191 Chp.10, p. 192-223 Chp.11, p. 224-247 Grade 3 Chp. 1, p. 1-27	Grade 1 Chp. 3, p. 42-63 Chp. 5, p. 80-95 Grade 2 Chp. 1, p. 1-21 Chp. 3, p. 40-61 Grade 3 Chp. 1, p. 2-19 Chp. 2, p. 20-37	Beginnings: Grade K Chp. 62, p. 103 Chp. 63, p. 104 Chp. 64, p. 105 Chp. 65, p. 106 Organisms: Grade 1 Chp. 3, p.29-32 Chp. 4, p. 33 Chp. 5, p. 34 Chp. 6, p. 35 Chp. 7, p. 39 Chp. 8, p.40-41 Chp.11, p.50-52 Chp.12, p.53 Chp.13, p.54-55 Chp.14, p.58-59 Chp.16, p.61 Life Cycles: Grade 2 Chp. 6, p.42-49 Chp. 7, p.50-54 Chp. 8, p.55-59 Chp. 9, p.62-63 Chp.12, p.71-72 Chp.13, p.73-75 Populations: Grade 3 Chp. 1, p.24-29 Chp. 2, p.30-31 Chp. 4, p.34-40 Chp. 5, p.41-43 Chp. 6, p.44-45 Chp. 8, p.51-54 Chp. 9, p.55-58 Chp.10, p.59-60 Chp.11, p.61-63 Chp.12, p.66-67

TOPIC & LEVEL	ACCENT ON SCIENCE CHARLES MERRILL c 1983	EXPLORING SCIENCE LAIDLAW BROTHERS c 1982	GATEWAYS TO SCIENCE McGRAW HILL c 1983	HEATH SCIENCE D.C. HEATH c 1981	SCIENCE SILVER BURDETT c 1984	SCIENCE CURR. IMPROVE. STUDY (SCIS)
Investigating Animals (Continued) (Primary)						Chp.13, p.68-69 Chp.14, p.70-73 Chp.15, p.76-77 Chp.16, p.78-79

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Life Cycles (Primary)				Watching Animals Change The Life Story of a Moth		

TOPIC & LEVEL	**ACCENT ON SCIENCE** CHARLES MERRILL © 1983	**EXPLORING SCIENCE** LAIDLAW BROTHERS © 1982	**GATEWAYS TO SCIENCE** McGRAW HILL © 1983	**HEATH SCIENCE** D.C. HEATH © 1981	**SCIENCE** SILVER BURDETT © 1984	SCIENCE CURR. IMPROVE. STUDY (SCIS)
Investigating Life Cylces (Primary)	Grade 1 Chp. 10, p. 142-153 Grade 3 Unit 5, p. 140-181		Grade 2 Chp. 9, p. 63-67	Grade 1 Chp. 7, p.131-157	Grade 1 Chp. 2, p. 32-35 Chp. 5, p. 92 Grade 2 Chp. 2, p. 22-39 Grade 3 Chp. 1, p. 2-19 Chp. 3, p. 38-59	Beginnings: Grade K Chp. 51, p. 90 Chp. 52, p.91-92 Chp. 53, p.93-94 Chp. 56, p. 97 Chp. 59, p. 100 Chp. 60, p. 101 Chp. 61, p. 102 Organisms: Grade 1 Chp. 1, p.22-23 Chp. 2, p. 24-25 Chp. 4, p. 33 Chp. 5, p. 34 Chp. 6, p. 35 Life Cycles: Grade 2 All Chapters 1-13 Populations: Grade 3 Chp. 4, p. 34-40 Chp. 5, p. 41-43 Chp. 6, p. 44-45

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	 CONTENT	 ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Drops (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 1.B. Water	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	ISEE #5, Investigating Drops Simple Demonstrations With Water	#1 Activity I, ITV Handbook for Teachers, p. 26 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 27 #4 Activity III, ITV Handbook for Teachers, p. 27 #5 Activity IV, Competency Measure, ITV Handbook for Teachers, p. 28	

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Investigating Drops (Primary)	Grade 1 Chp. 5, p. 70-83 Grade 3 Unit 4, p. 106-139			Grade 1 Chp. 6, p. 113-131	Grade 1 Chp. 7, p.118-122 Grade 2 Chp. 3, p. 56-57 Chp. 7, p. 130-139 Grade 3 Chp. 10, p. 195-197 Chp. 11, p. 213-220	Beginnings: Grade K Chp.41, p.76-77 Material: Grade 1 Chp.15, p.55-57 Chp.19, p.69-71 Chp.20, p.72-73 Chp.21, p.74-77 Organisms: Grade 1 Chp. 3, p.29-32 Chp. 9, p.44-45 Chp.10, p.46-47 Subsystems and Variables: Grade 3 Chp. 4, p.40-43 Chp. 6, p.54-57 Chp. 7, p.58-61 Chp. 8, p.62-63 Chp.10, p.67-69 Chp.11, p.74-76 Chp.12, p.77-79 Chp.13, p.81-83

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Small Things (Primary)				Microscopic Pond Life Life Story of a Water Flea		

TOPIC & LEVEL	ACCENT ON SCIENCE CHARLES MERRILL © 1983	EXPLORING SCIENCE LAIDLAW BROTHERS © 1982	GATEWAYS TO SCIENCE McGRAW HILL © 1983	HEATH SCIENCE D.C. HEATH © 1981	SCIENCE SILVER BURDETT © 1984	SCIENCE CURR. IMPROVE. STUDY (SCIS)
Investigating Small Things (Primary)	Grade 1 Chp. 1, p. 6 Chp. 6, p. 91		Grade 1 Chp. 21, p. 165-171			Beginnings: Grade K Chp. 36, p. 69 Organisms: Grade 1 Chp. 11, p.50-52 Subsystems and Variables: Chp. 9, p.65-66 Populations: Grade 3 Chp. 4, p. 34-40

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating the Solar System (Primary)				How Do Scientists Learn From Space? Stars		

TOPIC & LEVEL	ACCENT ON SCIENCE CHARLES MERRILL © 1983	EXPLORING SCIENCE LAIDLAW BROTHERS © 1982	GATEWAYS TO SCIENCE McGRAW HILL © 1983	HEATH SCIENCE D.C. HEATH © 1981	SCIENCE SILVER BURDETT © 1984	SCIENCE CURR. IMPROVE. STUDY (SCIS)
Investigating the Solar System (Primary)	Grade 3 Unit 7, p. 212-249	Grade 3 Unit 1, p. 6-31	Grade 2 Chp. 16, p. 119-125 Grade 3 Chp. 14, p. 187-199	Grade 3 Chp. 6, p. 176-207	Grade 1 Chp. 7, p. 110-127 Chp. 8, p. 128-143 Grade 2 Chp. 8, p. 142-161 Grade 3 Chp.10, p. 186-203 Chp.12, p. 224-245	

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Reflection of Light Beams (Primary)	1. Observing 4. Predicting 6. Communicating 10. Experimenting 13. Formulating Models	C. Physical Science 2.A. Basic Characteristics of Energy 2.D. Light/Color	1. Toward Classwork 2. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	ISEE #10, Reflection of Light Beams	#1 Activity I, ITV Handbook for Teachers, p. 81 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 82 #4 Activity III, ITV Handbook for Teachers, p. 83 #5 Activity IV, Competency Measure, ITV Handbook for Teachers, p. 83	

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Investigating Reflection of Light beams (Primary)	Grade 2 Chp. 6, p. 102-121	Grade 1 Unit 4, p. 72-94	Grade 1 Chp. 17, p. 133-139	Grade 2 Chp. 4, p. 64-85	Grade 1 Chp. 8, p. 128-133, 136-137 Grade 2 Chp. 6, p. 100-121 Grade 3 Chp.11, p. 206-207	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Seasons (Primary)				Spring is Here The Sun and the Earth		

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Investigating Seasons (Primary)		Grade 1 Unit 2, p. 24-46	Grade 1 Chp. 16, p. 123-129	Grade 2 Chp. 1, p. 1-21	Grade 1 Chp. 9, p. 150-159 Grade 2 Chp. 3, p. 32-35, 46-48 Chp. 9, p. 176-178 Grade 3 Chp. 11, p. 208-210	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Plants (Primary)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 10. Experimenting 12. Interpreting Data	B. Biological Science 1. Characteristics of Living Things 3. Plants 6. Ecology C. Physical Science 1.B. Water D. Earth and Space Science 5. Weather and Climate	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	Plants Predicting Plant Growth	#1 Activity II, Inquiry-Creativity Student Activities, p. 39 #2 Activity III, Inquiry-Creativity Student Activities, p. 39 #3 ITV Video Module #4 Activity I, Inquiry-Creativity Student Activities, p. 39 #5 Activity IV, Inquiry-Creativity Student Activities, p. 40 #6 Enrichment Activity, Inquiry-Creativity Student Activities, p. 41 #7 Activity V, Competency Inquiry-Creativity Student Activities, p. 40	

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Investigating Plants (Primary)	Grade 1 Chp. 9, p.126-141 Chp.10, p.142-153 Grade 2 Chp. 8, p.146-165 Grade 3 Unit 1, p. 2-31 Unit 5 Chp. 1, p. 144, p. 150-1[illegible]1	Grade 1 Unit 6, p. 120-142 Grade 2 Unit 5, p. 160-188 Grade 3 Unit 6, p. 160-186	Grade 1 Chp. 1, p. 3-9 Chp. 2, p. 10-17 Chp. 3, p. 19-25 Chp. 4, p. 27-31 Chp. 5. p. 33-39 Grade 2 Chp. 1, p. 3-7 Chp. 2, p. 9-15 Chp. 3, p. 17-23 Grade 3 Chp. 1, p. 3-13	Grade 2 Chp. 9, p.164-191 Chp.10, p.192-223 Chp.11, p.224-247 Grade 3 Chp. 1, p. 1-27	Grade 1 Chp. 2, p. 24-41 Chp. 3, p. 80-95 Grade 2 Chp. 2, p. 22-39 Chp. 3, p. 40-61 Grade 3 Chp. 3, p. 38-59 Chp. 4, p. 60-80	Beginnings: Grade K Chp. 5, p.29 Chp. 6, p.30 Chp.40, p.75 Chp.51, p.90 Chp.52, p.91-92 Chp.53, p.93-94 Chp.54, p. 95 Chp.55, p. 96 Chp.56, p. 97 Chp.57, p. 98 Chp.58, p. 99 Chp.59, p. 100 Chp.60. p. 101 Chp.61, p. 102 Organisms: Grade 1 Chp. 1, p.22-23 Chp. 2, p.24-25 Chp. 3, p.29-32 Chp. 7, p.39 Chp. 8, p.40-41 Chp. 9, p.44-45 Chp.10, p.46-47 Chp.11, p.50-52 Chp.13, p.54-55 Chp.14, p.58-59 Life Cycles: Grade 2 Chp. 1, p.25-26 Chp. 2, p.27-28 Chp. 3, p.29-31 Chp. 4, p.32-33 Chp. 5, p.34-39 Chp.10, p.64-65 Chp.11, p.68-70 Chp.12, p.71-72 Chp.13, p.73-75

TOPIC & LEVEL	ACCENT ON SCIENCE CHARLES MERRILL c 1983	EXPLORING SCIENCE LAIDLAW BROTHERS c 1982	GATEWAYS TO SCIENCE McGRAW HILL c 1983	HEATH SCIENCE D.C. HEATH c 1981	SCIENCE SILVER BURDETT c 1984	SCIENCE CURR. IMPROVE. STUDY (SCIS)
Investigating Plants (Con't) (Primary)						Populations: Grade 3 Chp. 1, p.24-29 Chp. 2, p.30-31 Chp. 3, p.32-33 Chp. 5, p.41-43 Chp. 7, p.48-54 Chp.10, p.59-60 Chp.11, p.61-63 Chp.12, p.66-67 Chp.14, p.70-73 Chp.15, p.76-77

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating the Human Body (Primary)				The Body Symphony Sensational Five		

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Investigating the Human Body (Primary)	Grade 1 Chp. 3, p. 42-43 Grade 2 Chp. 4, p. 64-83		Grade 1 Chp. 11, p. 81-87 Grade 2 Chp. 10, p. 69-77 Grade 3 Chp. 6, p. 69-81 Chp. 7, p. 83-93 Chp. 8, p. 95-109	Grade 2 Chp. 3, p. 40-63	Grade 1 Chp. 10, p. 160-177 Grade 2 Chp. 10, p. 182-207 Grade 3 Chp. 13, p. 248-265	Beginnings: Grade K Chp. 25, p. 56 Chp. 26, p. 57 Chp. 27, p. 58 Chp. 28, p. 59

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	 CONTENT	 ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Nutrition (Primary)				Eating Right With Harv and Marv Down, Down, Down		

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Investigating Nutrition (Primary)		Grade 2 Unit 6, p. 160-190	Grade 1 Chp. 11, p. 81-87 Grade 2 Chp. 7, p. 83-93	Grade 2 Chp. 3, p. 40-63 Grade 3 Chp. 9, p. 261-283 Chp.10, p. 284-305	Grade 1 Chp.10. p.160-177 Grade 2 Chp.10, p. 192-195 Grade 3 Chp.14, p. 266-283	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Communities (Primary)				Living Things and Their Environment Pond		

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Investigating Communities (Primary)	Grade 3 Unit 5, p. 140-181	Grade 2 Unit 5, p. 128-158		Grade 3 Chp. 1, p. 1-27 Chp. 3, p. 56-95	Grade 2 Chp. 3, p. 40-61	**Beginnings:** Grade K Chp.57, p.98 Chp.63, p.104 Chp.64, p.105 **Organisms:** Grade 1 Chp. 3, p.29-32 Chp. 7, p.39 Chp.13, p.54-55 **Populations:** Grade 3 Chp. 2, p.30-31 Chp. 7, p.48-50 Chp.11, p.61-63 Chp.15, p.76-77 Chp.16, p.78-79

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Oceanography (Primary)				Ocean Animals Trip to the Seashore		

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Oceanography (Primary)			Grade 1 Chp. 8, p. 57-63 Grade 2 Chp. 5, p. 31-37	Grade 2 Chp. 10, p. 192-223	Grade 2 Chp. 3, p. 56-59 Chp. 7, p. 128-131	Material: Grade 1 Chp.11, p.46-48 Interaction: Grade 2 Chp. 1, p. 24

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Geology (Primary)				Fossils Tell The Story What The Earth Is Like		

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Geology (Primary)	Grade 1 Chp. 6, p. 84-99 Grade 2 Chp. 9, p.166-181 Grade 3 Unit 6, p.182-211	Grade 2 Unit 1, p. 6-30	Grade 2 p. 89-93 Grade 3 Chp. 10, p.129-141 Chp. 13, p.175-185	Grade 1 Chp. 8, p. 158-175 Grade 3 Chp. 5, p. 140-175	Grade 1 Chp. 7, p. 110-117 Grade 3 Chp. 9, p. 166-185 Chp. 10, p. 186-190 198-201	Material: Grade 1 Chp.10,p.44-45 Organisms: Grade 1 Chp.14, p.58-59 Chp.15, p.60

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Energy (Primary)				Solar Energy Energy And Motion		

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Energy (Primary)		Grade 3 Unit 4, p. 97-116		Grade 3 Chp. 8, p. 236-259	Grade 1 Chp. 6, p. 96-109 Grade 2 Chp. 6, p.100-121 Grade 3 Chp. 6, p.117-119 Chp.14, p. 268	Interaction: Grade 2 Chp. 4, p.31-32 Chp. 5, p.33 Chp.16, p.82-83 Chp.17, p.86-9[illegible] Chp.18, p.96-99 Chp.19, p.100-103 Chp.20, p.104-107 Populations: Grade 3 Chp.10, p.59-60 Chp.11, p.61-62

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Ecology (Primary)				The Pond Balance in Nature Turtle-Care of a Pet		

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Ecology (Primary)	Grade 1 Chp. 5, p. 73-74 Grade 3 Unit 5, p.140-181	Grade 2 Unit 5, p.128-158 Grade 3 Unit 2 Chp. 3 Chp. 4, p. 48-63	Grade 2 Chp. 8, p. 53-61 Grade 3 Chp. 11, p.143-155 Chp. 12, p.157-175 Chp. 13, p.175-185	Grade 3 Chp. 3, p. 56-95	Grade 2 Chp. 1, p. 18-19 Chp. 7, p.138-139 Grade 3 Chp. 1, p. 29-37 Chp.10, p.186-203	Organisms: Grade 1 All Chapters 1-16 Life Cycles: Grade 2 All Chapters 1-13 Populations: Grade 3 All Chapters 1-16

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Ice and Water (Intermediate)	1. Observing 3. Inferring 4. Predicting 5. Measuring 6. Communicating 10. Experimenting 13. Forumulating Models	C. Physical Science 1.A. Form/State of Matter 1.B. Water 2.A. Basic Characteristics of Energy 2.F. Heat	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	ISEE II #2 Investigating Ice and Water Winter Ice-A First Film	#1 Activity V, Investigating Change Lesson, p. 5 #2 ITV Video Module #3 Activity I, ITV Handbook for Teachers, p. 97 #4 Activity II, ITV Handbook for Teachers, p. 98 #5 Activity III, ITV Handbook for Teachers, p. 98 #6 Activity IV, Competency Measure, ITV Handbook for Teachers, p. 99	

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Investigating Ice and Water (Intermediate)	Grade 5 Unit 7 Chp. 1, p. 239 Chp. 2, p.249-257 Chp. 3, p.258-272 Grade 6 Unit 2 Chp. 2, p. 42-55	Grade 4 Unit 3, p. 96-143	Grade 4 Chp.13, p.167-179	Grade 5 Chp. 4, p. 91 Chp. 8, p. 209	Grade 4 Chp. 5, p.134-141	Energy Sources © 1971 Grade 5 Chp.15, p.96-100 Chp.16,p.101-102 Chp.17,p.103-107

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Chemistry (INTERMEDIATE)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 10. Experimenting	C. Physical Science 1.A. Form/State of Matter	1. Toward Classwork 3. Toward Personal Use of Science	Matter is Made Of Chemical Change in Matter	#1 Activity I, Roy Allison lesson, Investigating Mixtures, p. 3 #2 Activity II, Roy Allison lesson, Investigating Mixtures, p. 4 #3 ITV Video Module #4 Activity IV, Roy Allison lesson, Investigating Mixtures, p. 5 #5 Acitivity III, Inquiry-Creativity Student Activities, I-17 #6 Activity IV Inquiry-Creativity Student Activities, I-17	

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Investigating Chemistry (Intermediate)	Grade 5 Unit 2 Chp. 1, p. 46-52 Grade 6 Unit 2 Chp. 1, p. 30-41 Chp. 2, p. 49-52	Grade 4 Unit 3, p. 96-143 Grade 6 Unit 3, p. 96-143	Grade 4 Chp. 16,p.209-221 Grade 5 Chp. 21,p.329-341 Grade 6 Chp. 21,p.327-339 Chp. 22,p.341-353 Chp. 23,p.355-367	Grade 4 Chp. 4, p.116-117 p. 124, p. 128, p. 133 Grade 6 Chp. 5, p.115-139	Grade 5 Chp. 6, p.142-150	Environments © 1970 Grade 4 Chp.14, p.82-83 Energy Sources © 1971 Grade 5 Chp.18,p.108-111 Chp.20,p.116-121 Models © 1971 Grade 6 Chp. 4, p.41-43 Chp.19,p.108-109 Ecosystems © 1971 Grade 6 Chp.10,p.62-63 Chp.11,p.64-65 Chp.12,p.66 Chp.13,p.67-68 Chp.14,p.69-75 Chp.17,p.86-89

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Color (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 2.D. Light/Color 2.F. Heat	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	Light and Color Color and Nature	#1 Activity I & II, Investigating Color II #2 Activity III, Investigating Color II #3 Optional Activity, Investigating Color II #4 ITV Video Module #5 Readiness Survey & Optional Activity Investigating Color III #6 Activity II & III, Investigating Color III	

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Investigating Color (Intermediate)	Grade 4 Unit 2, p. 50-59	Grade 5 Unit 4 Chp. 2, p.159-169		Grade 6 Chp. 8,p.225-231, p. 233	Grade 6 Chp. 7,p.164-167	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Strips & Liquids (Intermediate)	1. Observing 2. Classifying 3. Inferring 5. Measuring 6. Communicating 8. Defining Operationally 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 1.A. Form/State of Matter 1.B. Water	1. Toward Classwork 2. Toward Personal Use of Science 4. Toward Oneself	ISEE-II #8 Investigating Strips and Liquids Roots of Plants	#1 ITV Video Module #2 Activity I, ITV Handbook for Teachers, p. 148 #3 Activity II, ITV Handbook for Teachers, p. 149 #4 Activity III, ITV Handbook for Teachers, p. 149 #5 Activity IV, ITV Handbook for Teachers, p. 150 #6 Activity V, ITV Handbook for Teachers, p. 151	

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Investigating Strips and Liquids (Intermediate)	Grade 5 Unit 2 Chp. 1, 2, 3, p. 38-79				Grade 5 Chp. 6, p.132-141	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Geology (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 10. Experimenting 12. Interpreting Data	D. Earth & Space Science 1. Geology 2. Earth Changes	1. Toward Classwork 2. Toward Personal Use of Science 3. Toward Oneself	Rocks and Minerals Rocks and Minerals How We I.D. Them	#1 Activity I, Roy Allison lesson, Investigating Rocks and Minerals, p. 6 #2 ITV Video Module #3 Activity II, Roy Allison lesson, Investigating Rocks and Minerals, p. 6 #4 Activity III, Roy Allison lesson, Investigating Rocks and Minerals, p. 7 #5 Activity IV, Investigating Rocks and Minerals, p. 8 #6 Activity V, Roy Allison lesson, Investigating Rocks and Minerals, p. 9 #7 Activity VI, Roy Allison lesson, Investigating Rocks and Minerals, p. 11 #8 Activity VII, Roy Allison lesson, Investigating Rocks and Minerals, p. 13	

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Geology (Page 2) (Intermediate)					#9 Competency Measure, *Investigating Rocks and Minerals*, p. 13	

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Investigating Geology (Intermediate)	Grade 4 Unit 4, p.112-145 Chp. 2, p. 29 Grade 5 Unit 8 Chp. 1, 2, 3 p. 274-317 Grade 6 Unit 3 Chp. 2, p. 86-101	Grade 5 Unit 2, p. 48-95	Grade 5 Chp.10, p.149-164 Grade 6 Chp.12, p.183-198 Chp.13, p.199-213	Grade 4 Chp. 8, p.245-269 p. 271. p. 273 Grade 5 Chp. 5, p.112-137 p. 139, p. 141	Grade 4 Chp. 9, p.174-195 Grade 5 Chp. 9, p.212-235 Grade 6 Chp. 9, p.210-235 Chp.10, p.236-259	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Weather (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 10. Experimenting 12. Interpreting Data	C. Physical Science 1.A. Form/State of Matter 1.B. Water 2.F. Heat D. Earth and Space Science 5. Weather and Climate	1. Toward Classwork 2. Toward Interest and Careers 3. Toward Personal Use of Science 4. Toward Oneself	Storm - The Restless Atomosphere Program Fill - WPSX - World	#1 Activity I, Investigating the Formation of Dew and Frost, Allison #2 ITV Video Module #3 Activity II, Investigating the Formation of Dew and Frost, Allison #4 Activity III, Investigating the Formation of Dew and Frost, Allison #5 Activity IV, Investigating the Formation of Dew and Frost, Allison	

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Investigating Weather (Intermediate)	Grade 4 Unit 7 Chp. 3, p. 243 Grade 5 Unit 3 Chp. 1, 2, p. 80-113 Unit 2 Chp. 3, p. 74, p. 76 Grade 6 Unit 7 Chp. 1, p. 227	Grade 4 Unit 2, p. 48-95	Grade 5 Chp.13, p.195-211	Grade 5 Chp. 6,p.144-159, p. 161, p. 163 Chp. 7,p.165-183, p. 185	Grade 4 Chp.11, p.218-239 Grade 5 Chp.11, p.258-281 Grade 6 Chp.11, p.260-283	Environments © 1970 Grade 4 Chp. 4, p.34-35 Ecosystems © 1971 Grade 6 Chp. 7,p.48-49

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Sound (Intermediate)	1. Observing 2. Classifying 3. Inferring 6. Communicating 10. Experimenting 12. Interpreting Data	B. Biological Science 5. Human Body C. Physical Science 2.A. Basic Characteristics of Energy 2.E. Sound	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	ISEE - II #9 Investigating Sound Sound and How It Travels	#1 Activity II ITV Handbook for Teachers, p. 157 #2 ITV Video Module #3 Activity I, ITV Handbook for Teachers, p. 156 #4 Activity III, ITV Handbook for Teachers, p. 158 #5 Activity IV, ITV Handbook for Teachers. p. 159	

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Investigating Sound (Intermediate)	Grade 4 Unit 6, p. 182-215	Grade 6 Unit 6 Chp. 1,p.246-247	Grade 5 Chp.18, p.281-299	Grade 6 Chp.10, p.266-272	Grade 4 Chp. 6, p.114-115 Chp.14, p.299-302 Grade 6 Chp. 7, p.158-159 Chp. 8, p.185-195	

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Evaporation (Intermediate)	1. Observing 2. Inferring 4. Predicting 5. Measuring 6. Communicating 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 1.A. Form/State of Matter 1.B. Water	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	ISEE - II #7 Investigating Evaporation Rain	#1 ITV Video Module #2 Activity I, ITV Handbook for Teachers, p. 168 #3 Activity II, ITV Handbook for Teachers, p. 168 #4 Activity III, ITV Handbook for Teachers, p. 168 #5 Activity IV, ITV Handbook for Teachers, p. 167	

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Investigating Evaporation (Intermediate)	Grade 4 Unit 7 Chp. 3, p. 243 Grade 5 Unit 2 Chp. 3, p. 72 Grade 6 Unit 7 Chp. 1, p. 227 Unit 10 Chp. 2, p. 346-361	Grade 4 Unit 2 Chp. 1, p. 61-66	Grade 4 Chp.12, p.153-165 Grade 6 Chp.15, p.231-243	Grade 4 Chp. 4, p.125-127	Grade 4 Chp.11, p. 234 Grade 6 Chp. 9, p. 214	Ecosystems Grade 6 © 1971 Chp. 6, p.44-47 Chp. 7, p.48-49 Chp. 8, p.50-53 Chp. 9, p.54-57 Chp.16, p.80-81

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Floating Things (Intermediate)	1. Observing 2. Classifying 3. Inferring 10. Experimenting 11. Recognizing Variables	C. Physical Science 1.B. Water	1. Toward Classwork 3. Toward Personal Use of Science	ISEE-II #1 Investigating Floating Things Mass and Volume	#1 ITV Video Module #2 Activity I, ITV Handbook for Teachers, p. 88 #3 Activity II, ITV Handbook for Teachers, p. 91 #4 Activity III, ITV Handbook for Teachers, p. 91	

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Investigating Floating Things (Intermediate)	Grade 5 Unit 2 Chp. 2, 3, p. 54-79 Grade 6 Unit 2 Chp. 1, 2 p. 30-55 Unit 10 Chp. 2, p.346-361		Grade 4 Chp.13, p.167-179	Grade 4 Chp. 4, p. 113	Grade 4 Chp. 5, p.107-109 Grade 5 Chp. 6, p.134-135	

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	CONTINUUM COMPETENCIES					AVAILABLE MICROCOMPUTER SOFTWARE
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	
Investigating Simple Machines (Intermediate)	1. Observing 3. Inferring 4. Predicting 6. Communicating 7. Using Space/Time Relationships 8. Defining Operationally 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data 13. Formulating Models	C. Physical Science 2.A. Basic Characteristics of Energy 2.G. Force and Machines	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	Simple Machines Machines	#1 Activity I Altoona Area School District AASD I-CSA, Inquiry-Creativity Student Activities, p. I-2 #2 ITV Video Module #3 Activity III, AASD I-CSA #5 Activity IV, AASD-I-CSA, p. I-3	

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Investigating Simple Machines (Intermediate)	Grade 5 Unit 5 Chp. 1, 2, 3, p. 158-199 Unit 7 Chp. 1,p.232-237	Grade 4 Unit 4, p.144-191		Grade 4 Chp. 2, p. 43, p. 47-49, p. 50-51, p. 52-55, p. 56-57, p.58-59, p. 60-63, p. 64-66, p. 67-68, p. 70-73, p. 75, p. 77	Grade 4 Chp. 6, p.112-131	

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Bouncing Objects (Intermediate)	1. Observing 3. Inferring 4. Predicting 5. Measuring 6. Communicating 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 2.A. Basic Characteristics of Energy 2.G. Force and Machines	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	ISEE-II #10 Investigating Bouncing Objects Waves and Energy	#1 Activity I, *ITV Handbook for Teachers*, p. 142 #2 ITV Video Module #3 Activity II, *ITV Handbook for Teachers*, p. 142 #4 Activity III, *ITV Handbook for Teachers*, p. 143 #5 Activity IV, *ITV Handbook for Teachers*, p. 143 #6 Activity V, *ITV Handbook for Teachers*, p. 144	

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Investigating Bouncing Objects (Intermediate)	Grade 5 Unit 7 Chp. 1, p.232-238 Chp. 2, p.244-247 p.254-255 Unit 5 Chp. 1, p.160-170 p.172-175			Grade 6 Chp. 7, p.174-175	Grade 4 Chp. 6, p.117-119	

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	 CONTENT	 ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Electricity (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 6. Communicating 9. Formulating Hypotheses 10. Experimenting	C. Physical Science 2.B. Electricity	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	Electricity Into Light Electricity	#1 Activity I, Roy Allison lesson, p. 4 #2 Activity II, Roy Allison lesson, p. 5 #3 ITV Video Module #4 Activity III, Roy Allison lesson, p. 7 #5 Activity IV, Roy Allison lesson, p. 7	

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Investigating Electricity (Intermediate)	Grade 4 Unit 8 Chp. 1, 2, 3, p. 250-285 Grade 5 Unit 5 Chp. 2, p.176-177 Unit 7 Chp. 1, p. 240 Chp. 2, p. 248 Grade 6 Unit 8 Chp. 1, p.270-285	Grade 5 Unit 3, p. 96-143	Grade 4 Chp.17, p.223-235 Chp.18, p.237-247 Grade 5 Chp.16, p.247-259 Chp.17, p.261-279 Grade 6 Chp.19, p.297-309	Grade 6 Chp. 6, p.144-151 p.152-154 p.155-167 p.171	Grade 4 Chp. 8, p.150-169 Chp.10, p. 213 Grade 5 Chp. 7, p.154-179 Chp. 8, p.180-207 Grade 6 Chp. 8, p.178-205	Models © 1971 Grade 6 All Chapters 1-19

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Energy (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables	C. Physical Science 2.A. Basic Characteristics of Energy 2.G. Force and Machines	1. Toward Classwork 2. Toward Personal Use of Science 4. Toward Oneself	Energy Energy-A Family Album	#1 Activity I, *Inquiry-Related Student Activities*, p. I-52 #2 ITV Video Module #3 Activity II, *Inquiry-Related Student Activities*, p. I-52 #4 Activity III, *Inquiry-Related Student Activities*, p. I-53 #5 Activity IV, *Inquiry-Related Student Activities*, p. I-53 #6 Competency Measure, *Inquiry-Related Student Activities*, p. I-53	

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Investigating Energy (Intermediate)	Grade 4 Unit 2 Chp. 1, p. 39-40 Grade 5 Unit 7 Chp. 1, 2, 3, p. 230-273 Unit 5 Chp. 1, 2, 3, p. 158-199 Grade 6 Unit 4 Chp. 1, 2, p. 102-135	Grade 6 Unit 4, p.144-191	Grade 6 Chp.18, p.279-295 Chp.20, p.311-325	Grade 4 Chp.10, p. 306 Grade 5 Chp. 4, p. 95, p. 99-100, p. 101-103 Grade 6 Chp. 7, p.173-197 p. 201	Grade 4 Chp. 6, p.112-131 Chp.10, p.212-213 Chp.13, p.268,274 285 Grade 5 Chp. 8, p.180-207 Grade 6 Chp. 6, p.132-141 Chp. 9, p.154-159	Energy Sources Grade 5 © 1971 All Chapters 1-20 Models © 1971 Grade 6 All Chapters 1-19

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Heat Loss (Intermediate)	1. Observing 2. Classifying 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 10. Experimenting 11. Recognizing Variables 12. Interpreting Data 13. Formulating Models	B. Biological Science 4. Animals 5. Human Biology 6. Ecology C. Physical Science 1.A. Form/State of Matter 1.B. Water 1.D. Atoms and Molecules 2.A. Basic Characteristics of Energy 2.F. Heat		ISEE-II #6 Investigating Heat Loss Heat and How We Use It	#1 Activity I, ITV Handbook for Teachers, p. 133 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 133 #4 Activity III, ITV Handbook for Teachers, p. 135 #5 Activity IV, ITV Handbook for Teachers, p. 137 #6 Activity V, ITV Handbook for Teachers, p. 137	

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Investigating Heat Loss (Intermediate)	Grade 5 Unit 7 Chp. 1, p. 239 Chp. 2, p.249-251 Chp. 3, p.260-261		Grade 4 Chp.19, p.249-263	Grade 4 Chp. 4, p. 123 Grade 5 Chp. 4, p. 84, p. 103	Grade 4 Chp. 6, p.114-116 Chp. 7, p.132-149 Grade 5 Chp. 6, p.140-141 Chp. 7, p.172 Chp.11, p. 260 Grade 6 Chp. 6, p. 138	Energy Sources Grade 5 © 1971 Chp. 8, p.62-65 Chp. 9, p.66-69 Chp.10, p.70-75 Chp.15, p.96-100 Chp.16,p.101-102 Chp.17,p.103-107 Chp.18,p.108-111 Chp.20,p.116-121

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Animals (Intermediate)	1. Observing 3. Inferring 6. Communicating 8. Defining Operationally 10. Experimenting 12. Interpreting Data	B. Biological Science 1. Characteristics of Living Things 4. Animals	1. Toward Classwork 3. Toward Personal Use of Science	Anthropods How Scientists Classify Living Things	#1 Activity I, "Investigating Earthworms," Roy Allison #2 ITV Video Module #3 Activity II, "Investigating Earthworms," Roy Allison #4 Activity III, "Investigating Earthworms," Roy Allison #5 Activity I, Inquiry-Creativity Student Activities, I-59 #6 Activities II and III, Inquiry-Creativity Student Activities, I-59/61	

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Investigating Animals (Intermediate)	Grade 4 Unit 1 Chp. 1, 2, p. 2-35 Unit 5 Chp. 1, 2, 3, p. 146-181 Unit 6 Chp. 3, p.204-215 Grade 5 Unit 1 Chp. 2, p. 22-37 Grade 6 Unit 1 Chp. 1, 2, p. 2-27 Unit 7 Chp. 1, 2, p. 222-251 Unit 9 Chp. 1, 2, p. 300-329	Grade 4 Unit 5, p.192-239	Grade 4 Chp. 5, p. 59-65 Grade 5 Chp. 3, p. 33-47 Chp. 4, p. 49-67 Chp. 5, p. 69-83 Grade 6 Chp. 3, p. 33-47 Chp. 4, p. 49-63 Chp. 5, p. 65-81 Chp. 6, p. 83-91	Grade 4 Chp. 1, p. 44-37 p. 39 Grade 5 Chp. 1, p. 3-20 p. 25 Grade 6 Chp. 1, p. 3-25 p. 27 p. 29 Chp. 2, p. 32-47 p. 49	Grade 4 Chp. 1, p. 2-23 Chp. 3, p. 46-63 Chp. 4, p. 46-87 Grade 5 Chp. 2, p. 26-55 Chp. 3, p. 79 Chp. 4, p. 80-105 Grade 6 Chp. 3, p. 48-75	Environments Grade 4 © 1970 Chp. 1,p.24-26 Chp. 2,p.27-29 Chp. 3,p.30-31 Chp. 5,p.36-39 Chp. 6,p.43-48 Chp. 7,p.49-54 Chp. 8,p.55-60 Chp. 9,p.61-65 Chp.10,p.66-67 Chp.15,p.86-89 Communities Grade 5 © 1971 Chp. 7,p.52-56 Chp. 8,p.57-58 Chp. 9,p.59-63 Chp.10,p.64-71 Chp.11,p.74-77 Chp.13,p.86-89 Chp.14,p.90-93 Chp.15,p.94-97 Chp.16,p.98-101 Chp.17,p.102-105 Ecosystems Grade 6 © 1971 Chp. 2,p.28-30 Chp. 3,p.31-37 Chp. 4,p.38-39 Chp. 5,p.40-41 Chp.10,p.62-63 Chp.14,p.69-75 Chp.16,p.80-81 Chp.17,p.86-89 Chp.18,p.90-92 Chp.19,p.93-95 Chp.21,p.98-101

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Life Cycles (Intermediate)				May Fly Monarch Butterfly		

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Investigating Life Cycles (Intermediate)	Grade 4 Unit 5 Chp. 1, 2, 3, p. 146-181 Grade 5 Unit 9 Chp. 2, p.336-347 Grade 6 Unit 7 Chp. 1, 2, p. [illegible]22-251 Unit 9 Chp. 1, 2, p. 300-329	Grade 6 Unit 5, p.192-239		Grade 4 Chp. 1, p. 14-18 Grade 6 Chp. 4, p. 85-111	Grade 5 Chp. 1, p. 18-25 Chp. 2, p. 62	Communities Grade 5 © 1971 Chp. 1,p.24-25 Chp. 2,p.26-31 Chp. 4,p.38-43 Chp. 5,p.44-45 Chp. 6,p.46-49 Chp.13,p.86-89 Ecosystems Grade 6 © 1971 Chp. 2,p.28-30 Chp. 3,p.31-37

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Things That Magnify (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 8. Defining Operationally 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	C. Physical Science 2.D. Light/Color	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself	ISEE-II #5 Investigating Things That Magnify World of Close Up	#1 Activity I, ITV Handbook for Teachers, p. 107 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 107 #4 Activity III, ITV Handbook for Teachers, p. 108	

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Investigating Things That Magnify (Intermediate)	Grade 4 Unit 2 Chp. 1, p. 38-47 Grade 6 Unit 1 Chp. 1, p. 6-9	Grade 5 Unit 5, p.192-235	Grade 4 Chp. 2, p. 19-31 Grade 5 Chp.19, p.301-315	Grade 5 Chp. 2, p. 33-34	Grade 6 Chp. 7, p.168-172	

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Small Things (Intermediate)				Life In A Drop Of Water Cells		

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Investigating Small Things (Intermediate)	Grade 4 Unit 2 Chp. 1, p. 47 Grade 5 Unit 1 Chp. 2, p. 25-27 Grade 6 Unit 1 Chp. 1, 2, p. 2-27	Grade 5 Unit 5, p.192-235	Grade 4 Chp. 2, p. 19-43 Grade 6 Chp. 1, p. 3-15	Grade 5 Chp. 2, p.43-45 Grade 6 Chp. 1, p.34-35 p.44-47	Grade 4 Chp.13, p.270-271 Grade 5 Chp. 1, p. 6-10 Grade 6 Chp. 1, p. 2-25	Environments Grade 4 © 1970 Chp.10,p.66-67

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating the Solar System (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 7. Using Space/ Time Relations 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data 13. Formulating Models	C. Physical Science 2. G. Energy Force and Machines D. Earth and Space Science 6. Solar System	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself	Planets And The Stars	#1 ITV Video Module #2 Activity III, "Investigating the Universe," Vicki Lutzkanin, et.al. #3 Activity IV, "Investigating the Universe," Vicki Lutzkanin, et.al.	

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Investigating the Solar System (Intermediate)	Grade 4 Unit 3 Chp. 1, 2, 3, p. 72-111 Grade 5 Unit 3 Chp. 2,p.107-110 Unit 6 Chp. 1, 2, p. 200-229 Grade 6 Unit 6 Chp. 1, 2, p. 188-221	Grade 4 Unit 1, p. 6-47 Grade 6 Unit 2, p. 48-95	Grade 5 Chp.14, p.213-229 Chp.16, p.245-261	Grade 4 Chp. 6, p.182-201 p. 205 Chp. 7, p.207-237 p. 239 p. 241 Grade 5 Chp.10, p.256-281 p. 283 p. 285	Grade 4 Chp.12, p.240-263 Grade 5 Chp.12, p.282-305 Grade 6 Chp.12, p.284-307	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Flight (Intermediate)				America's Wings		

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Investigating Flight (Intermediate)					Grade 6 Chp. 12, p. 284-307	Energy Sources Grade 5 © 1971 Chp. 2, p. 32-35 Chp. 3, p. 36-37

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	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Friction (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 7. Using Space/ Time Relations 9. Formulating Hypotheses 10. Experimenting 12. Interpreting Data	C. Physical Science 2.A. Basic Characteristics of Energy 2.G. Force and Machines	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	ISEE-II #3 Investigating Friction Friction: A First Film	#1 Activity I, ITV Handbook for Teachers, p. 113 #2 ITV Video Module #3 Activity II, ITV Handbook for Teachers, p. 115 #4 Activity III, ITV Handbook for Teachers, p. 117 #5 Activity IV, ITV Handbook for Teachers, p. 188 #6 Activity V, ITV Handbook for Teachers, p. 188	

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Investigating Friction (Intermediate)	Grade 5 Unit 5 Chp. 2, p.173-175 Chp. 3, p. 194 Unit 7 Chp. 2, p. 253	Grade 4 Unit 4 Chp. 3, p.175-191		Grade 4 Chp. , p. 67-73 p. 77	Grade 4 Chp. 6, p. 125 Chp. 8, p. 152	Energy Sources Grade 5 © 1971 Chp.11,p.78-80

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Seasons (Intermediate)				Winter Days and Seasons		

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Investigating Seasons (Intermediate)	Grade 5 Unit 3 Chp. 2, p.107-110		Grade 4 Chp.15, p.193-207	Grade 6 Chp.11, p. 298	Grade 4 Chp. 4, p. 68-70 Grade 6 Chp. 2, p. 28-31	

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Plants (Intermediate)	1. Observing 2. Classifying 3. Inferring 4. Predicting 5. Measuring 6. Communicating 8. Defining Operationally 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables 12. Interpreting Data	B. Biological Science 1. Characteristics of Living Things 3. Plants 6. Ecology	1. Toward Classwork 2. Toward Interests and Careers 3. Toward Personal Use of Science 4. Toward Oneself 5. Toward Science and Society	What Do Plants Do? A First Film Flowering Plants	#1 Activity I, Investigating Plants and Their Habitats #2 Activity II, Investigating Plants and Their Habitats #3 ITV Video Module #4 Activity III, Investigating Plants and Their Habitats #5 Activity IV, Investigating Plants and Their Habitats #6 Activity V, Investigating Plants and Their Habitats	

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Investigating Plants (Intermediate)	Grade 4 Unit 9 Chp. 1, 2, 3, p. 286-317 Grade 5 Unit 9 Chp. 1, 2, p. 318-347 Grade 6 Unit 7 Chp. 1, p.229-231 Chp. 3, p.252-263	Grade 4 Unit 6, p.240-282	Grade 4 Chp. 3, p.33-43 Chp. 4, p.45-57 Grade 5 Chp. 2, p.19-31 Grade 6 Chp. 2, p.17-31	Grade 4 Chp. , p.276-293 p. 295 Grade 5 Chp. 9, p. 224 p. 228 p.231-233 p. 246 Grade 6 Chp. 3, p.54-79 p. 81	Grade 4 Chp. 2, p.24-45 Chp. 3, p. 46-63 Chp. 4, p. 64-87 Grade 5 Chp. 1, p. 2-25 Chp. 4, p.80-105 Grade 6 Chp. 2, p. 26-47 Chp. 4, p.76-105	Environments Grade 4 © 1970 Chp. 1,p.24-26 Chp. 2,p.27-29 Chp. 3,p.30-31 Chp. 5,p.36-39 Chp.11,p.70-73 Chp.12,p.74-77 Chp.13,p.78-81 Chp.14,p.82-83 Chp.15,p.86-89 Communities Grade 5 © 1971 Chp. 1,p.24-25 Chp. 2,p.26-31 Chp. 3,p.32-37 Chp. 4,p.38-43 Chp. 5,p.44-45 Chp. 6,p.46-49 Chp. 8,p.57-58 Chp.11,p.74-77 Chp.14,p.90-93 Chp.15,p.94-97 Chp.16,p.98-101 Chp.17,p.102-10 Ecosystems Grade 6 © 1971 Chp. 1,p.24-27 Chp. 2,p.28-30 Chp. 5,p.40-41 Chp.15,p.76-77 Chp.16,p.80-81 Chp.19,p.93-95 Chp.21,p.09-101

	CONTINUUM COMPETENCIES					
TOPIC & LEVEL	PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Problems of Sprouting Seeds (Intermediate)	1. Observing 3. Inferring 4. Predicting 5. Measuring 6. Communicating 9. Formulating Hypotheses 10. Experimenting 11. Recognizing Variables	B. Biological Science 1. Characteristics of Living Things 3. Plants	1. Toward Classwork 3. Toward Personal Use of Science 4. Toward Oneself	ISEE-II #4 Investigating Sprouting Seeds Seed Dispersal	#1 Activity I, ITV Handbook for Teachers, p. 124 #2 ITV Video Module #3 Activity I, "Seed Germination," Roy Allison, p. 9 #4 Activity II, ITV Handbook for Teachers, p. 124 #5 Activity III, ITV Handbook for Teachers, p. 125 #6 Activity IV, ITV Handbook for Teachers, p. 125 #7 Activity V, "Recording the Growth of Plants," Roy Allison, p. 13	

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Investigating Problems of Sprouting Seeds (Intermediate)	Grade 4 Unit 9 Chp. 1, 2, 3, p. 286-317 Grade 5 Unit 9 Chp. 1, p.327-330 Grade 6 Unit 10 Chp. 1, p.332-345	Grade 4 Unit 6, p.240-282		Grade 6 Chp. 3, p. 56-59	Grade 5 Chp. 1, p. 2-25 Grade 6 Chp. 2, p. 26-47	Environments Grade 4 © 1970 Chp.11,p.70-73 Chp.12,p.74-77 Chp.13,p.78-81 Chp.14,p.82-83 Chp.15,p.86-89 Communities Grade 5 © 1971 Chp. 1,p.24-25 Chp. 2,p.26-31 Chp. 3,p.32-37 Chp. 4,p.38-43 Chp. 5,p.44-45 Chp. 6,p.46-49 Ecosystems Grade 6 © 1971 Chp. 1,p.24-27

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating the Human Body (Intermediate)				Senses and Perceptions Eyes and Vision		

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Investigating the Human Body (Intermediate)	Grade 4 Unit 1 Chp. 1, 2, p.2-35 Unit 5 Chp. 3, p. 177 Unit 6 Chp. 3, p. 204-215 Grade 5 Unit 4 Chp. 1, 2, 3, 4, p. 114-157 Grade 6 Unit 5 Chp. 1, 2, 3, 4, p. 136-187	Grade 5 Unit 6, p.236-282	Grade 4 Chp. 7, p. 87-95 Chp. 8, p. 99-109 Chp. 9, p.111-125 Grade 5 Chp. 6, p. 85-101 Chp. 7, p.103-115 Chp. 8, p.117-129 Grade 6 Chp. 7, p. 97-111 Chp. 8, p.113-129 Chp. 9, p.131-145	Grade 4 Chp. 3, p.80-113, p. 107 Grade 5 Chp.11, p.290-309 p. 311 Chp.12, p. 326 Grade 6 Chp. 1, p. 5 Chp. 4, p. 86, p. 89-90 p. 100-106 Chp.12,p.331-332	Grade 4 Chp.13, p.268-289 Chp.14, p.290-313 Grade 5 Chp.13, p.312-333 Chp.14, p.334-359 Grade 6 Chp.13, p.314-335 Chp.14, p.336-357	

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	CONTENT	ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Nutrition (Intermediate)				The All American Meal Who Cares What I Choose To Eat		
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Investigating Nutrition (Intermediate)	Grade 4 Unit 1 Chp. 2, p. 18-25 Grade 5 Unit 4 Chp. 1, p.119-121 Chp. 2, p. 133 Chp. 3, p. 143 Grade 6 Unit 5 Chp. 3, p.162-173	Grade 5 Unit 6, p.255-257	Grade 4 Chp. 8, p.99-109 Grade 5 Chp. 9, p.131-147 Grade 6 Chp. 9, p.131-145	Grade 5 Chp.12, p.314-320	Grade 4 Chp.13, p.268-289 Grade 5 Chp.13, p.329-331	

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Communities (Intermediate)				Where Plants and Animals Live The Marsh and Many Worlds of Nature		

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Investigating Communities (Intermediate)	Grade 4 Unit 5 Chp. 1, 2, 3, p. 146-170 Unit 9 Chp. 1, 2, p. 286-305 Grade 5 Unit 1 Chp. 1, 2, p. 2-37 Unit 9 Chp. 2, p.336-342 Grade 6 Unit 1 Chp. 2, p. 14-27 Unit 7 Chp. 1, 2, 3, p. 222-267	Grade 4 Unit 5, p.192-239 Grade 6 Unit 1, p. 6-47		Grade 6 Chp.12, p.345-349	Grade 4 Chp. 1, p. 2-23 Chp. 3, p. 46-63 Grade 5 Chp. 4, p. 80-103 Grade 6 Chp. 4, p. 76-105	Communities Grade 5 © 1971 All Chapters 1-17 Ecosystems Grade 6 © 1971 Chp. 1, p.24-27 Chp. 2, p.28-30 Chp. 4, p.38-39 Chp. 5, p.40-41 Chp.16, p.80-81 Chp.21, p.98-101

TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	 CONTENT	 ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Oceanography (Intermediate)				Life In The Ocean Adaptions To The Ocean Environments		

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Investigating Oceanography (Intermediate)	Grade 4 Unit 7 Chp. 1, 2, 3, p. 216-249 Grade 6 Unit 3 Chp. 2, p. 86-101 Unit 7 Chp. 3, p.262-263	Grade 4 Unit 1, p. 6-47	Grade 4 Chp.14, p.181-191	Grade Chp. 8, p.192-217 p. 219 p. 221 Chp. 9, p.228-249 p. 251	Grade 4 Chp.10, p.196-217 Grade 6 Chp. 9, p.227-233	

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TOPIC & LEVEL	CONTINUUM COMPETENCIES PROCESSES	 CONTENT	 ATTITUDES	VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
Investigating Heat (Intermediate)				Heat Energy Heat		

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Investigating Heat (Intermediate)	Grade 5 Unit 7 Chp. 1, p. 239 Chp. 2,p.249-251 Chp. 3,p.260-261		Grade 4 Chp. 19,p.249-263 Chp. 20,p.265-273	Grade 4 Chp. 4, p. 123 p. 127 p.130-131 Grade 5 Chp. 4, p.79-103 p. 105 p. 107 Grade 6 Chp. 7, p. 179	Grade 4 Chp. 7, p.132-149 Grade 5 Chp. 6, p.140-141 Chp.11, p.260-264 Grade 6 Chp. 6, p. 138	Environments Grade 4 © 1970 Chp. 6,p.43-48 Chp. 7,p.49-54 Chp. 8,p.55-60 Chp. 9,p.61-65 Chp.12,p.74-77 Energy Sources Grade 5 © 1971 Chp. 8,p.62-65 Chp. 9,p.66-69 Chp.10,p.70-75 Chp.16,p.101-102 Chp.17,p.103-107 Chp.18,p.108-111 Chp.20,p.116-121

TOPIC & LEVEL	CONTINUUM COMPETENCIES			VIDEO MODULE	LESSONS	AVAILABLE MICROCOMPUTER SOFTWARE
	PROCESSES	CONTENT	ATTITUDES			
Investigating Ecology (Intermediate)				The Future Trees and Their Importance		

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Investigating Ecology (Intermediate)	Grade 4 Unit 7 Chp. 3, p.244-246 Unit 9 Chp. 3, p.306-315 Grade 5 Unit 7 Chp. 3, p.259 p.268-269 Grade 6 Unit 7 Chp. 1, 2, 3, p. 222-267 Unit 10 Chp. 1, 2, 3, p. 330-381	Grade 6 Unit 1, p. 6-47	Grade 4 Chp. 1, p. 3-17 Chp. 6, p. 73-85	Grade 6 Chp.12, p.345-349	Grade 5 Chp. 4, p. 82-91 Chp.10, p.236-257 Grade 6 Chp. 9, p.210-235	Environments Grade 4 © 1970 All Chapters 1-15 Communities Grade 5 © 1971 All Chapters 1-17 Ecosystems Grade 6 © 1971 All Chapters 1-21